



04-07-05

IFW-11

Attorney's Docket No.: 13498-005004 / MET-4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Thomas J. McMurry et al. Art Unit : 1616
Serial No. : 10/755,506 Examiner : Michael G. Hartley
Filed : January 12, 2004
Title : DIAGNOSTIC IMAGING CONTRAST AGENTS WITH EXTENDED BLOOD
RETENTION

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form.

Under 35 USC §120, this application relies on the earlier filing date of application serial numbers 10/034,522, 08/875,365, and 08/382,317, filed on December 20, 2001, December 12, 1997, and February 12, 1995, respectively. All of the references were submitted to and/or cited by the Office in the prior applications and, therefore, are not provided in this application.

This statement is filed after a first Office action on the merits, but before receipt of a final Office action. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 4/6/05

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Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

13498-005004

Application No.

10/755,506

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.56(b))

Applicant

Thomas J. McMurry et al.

Filing Date

January 12, 2004

Group Art Unit

1616

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,652,835	11/25/03	Lauffer et al.			
	AB	6,652,834	11/25/03	Anelli et al.			
	AC	6,479,681	11/12/02	Brocchetta et al.			
	AD	6,461,588	10/08/02	Anelli et al.			
	AE	6,342,598	01/29/02	Anelli et al.			
	AF	6,307,074	10/23/01	Brocchetta et al.			
	AG	5,846,519	12/08/98	Tweedle et al.			
	AH	5,725,840	03/10/98	Klaveness et al.			
	AI	5,674,470	10/07/97	Tweedle et al.			
	AJ	5,660,814	08/1997	Uggeri et al.			
	AK	5,649,537	07/1997	Anelli et al.			
	AL	5,635,180	06/1997	Morgan, Jr., et al.			
	AM	5,573,752	11/1996	Ranganathan et al.			
	AN	5,545,395	08/1996	Tournier et al.			
	AO	5,525,338	06/1996	Goldenberg			
	AP	5,512,322	04/1996	Liberti et al.			
	AQ	5,505,932	04/1996	Grinstaff et al.			
	AR	5,487,390	01/1996	Cohen et al.			
	AS	5,474,756	12/12/95	Tweedle et al.			
	AT	5,407,659	4/1995	Deutsch et al.			
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	AV	5,380,519	01/1995	Schneider et al.			
	AW	5,362,475	11/1994	Gries et al.			
	AX	5,358,704	10/1994	Desreux et al.			
	AY	5,318,771	06/1994	Lauffer et al.			
	AZ	5,318,769	06/1994	Bacon et al.			
	AAA	5,314,679	05/1994	Lewis et al.			

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13498-005004	Application No. 10/755,506
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Thomas J. McMurphy et al.	
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U.S. Patent Documents							
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	ABB	5,250,285	10/1993	Lauffer et al.			
	ACC	5,223,243	06/1993	Rocklage et al.			
	ADD	5,094,848	03/1992	Brixner			
	AEE	5,091,169	02/25/92	Rocklage et al.			
	AFF	5,078,986	01/1992	Bosworth et al.			
	AGG	5,047,659	04/1995	Deutsch et al.			
	AHH	5,017,359	05/1991	Nicolau et al.			
	AII	4,980,502	12/1990	Felder et al.			
	AJJ	4,963,344	10/1990	Gries et al.			
	AKK	4,957,939	09/1990	Gries et al.			
	ALL	4,899,755	02/1990	Lauffer et al.			
	AMM	4,885,363	12/1989	Tweedle et al.			
	ANN	4,880,008	11/1989	Lauffer			
	AOO	4,859,451	08/1989	Quay et al.			
	APP	4,834,964	05/1989	Rosen			
	AQQ	4,746,507	05/1988	Quay			
	ARR	4,714,607	12/1987	Klaveness			
	ASS	4,687,658	08/1987	Quay			
	ATT	4,647,447	03/1987	Gries et al.			
	AUU	4,639,365	01/1987	Sherry			
	AVV	4,615,879	10/1986	Runge et al.			
	AWW	4,472,509	09/1984	Gansow et al.			
	AXX	4,401,647	8/1983	Krohn et al.			
	AYY	4,361,544	11/1982	Goldenberg			
	AZZ	4,352,751	10/1982	Wieder et al.			
	AAAA	4,331,647	05/1982	Goldenberg			
	ABBB	4,308,149	12/1981	Frank et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACCC	4,150,047	04/1979	Coe et al.			
	ADDD	3,632,637	01/1972	Martell			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AEEE	8633082	01/1983	AU				
	AFFF	2,139,374	07/1995	CA				
	AGGG	3401052	07/1984	DE				
	AHHH	3129906	02/1983	DE				
	AIII	2606721	09/1976	DE				
	AJJJ	0450742	10/1991	DE				
	AKKK	0661279	07/1995	EP				
	ALLL	0543482	05/1993	EP				
	AMMM	0535668	04/1993	EP				
	ANNN	0485045	05/1992	EP				
	AOOO	0463644	01/1992	EP				
	APPP	0455380	11/1991	EP				
	AQQQ	0454078	10/1991	EP				
	ARRR	0405704	01/1991	EP				
	ASSS	0374947	06/1990	EP				
	ATTT	0347947	12/1989	EP				
	AUUU	0331616	09/1989	EP				
	AVVV	0304780	03/1989	EP				
	AWWW	0292761	11/1988	EP				
	AXXX	0292689	11/1988	EP				
	AYYY	0290047	11/1988	EP				
	AZZZ	0290041	11/1988	EP				

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	AAAAA	0 279 307	11/13/96	EP				
	ABBBB	0258616	03/1988	EP				
	ACCCC	0250358	12/1987	EP				
	ADDDD	0232751	08/1987	EP				
	AEEEE	0230893	08/1987	EP				
	AFFFF	0169299	04/1990	EP				
	AGGGG	0165728	12/1985	EP				
	AHHHH	0133603	02/1985	EP				
	AIIII	2643370	08/1990	FR				
	AJJJJ	2354993	01/1978	FR				
	AKKKK	WO 93/03351	02/1993	PCT				
	ALLLL	WO 91/03200	03/1991	PCT				
	AMMMM	WO 90/03804	04/1990	PCT				
	ANNNN	WO 89/12631	12/1989	PCT				
	AOOOO	WO 89/01476	02/1989	PCT				
	APPPP	WO 89/01475	02/1989	PCT				
	AQQQQ	WO 88/07521	10/1988	PCT				
	ARRRR	WO 86/06605	11/1986	PCT				
	ASSSS	WO 86/02841	05/1986	PCT				
	ATTTT	WO 86/02352	04/1986	PCT				
	AUUUU	WO 86/02005	04/1986	PCT				
	AVVVV	WO 86/01410	03/1986	PCT				
	AWWWW	WO 85/05554	12/1985	PCT				
	AXXXX	WO 85/02772	07/1985	PCT				
	AYYYY	WO 98/05625	12/1998	PCT				
	AZZZZ	WO 95/32741	12/1995	PCT				
	AAAAA	WO 91/03200	03/1991	PCT				

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ABBBBB	WO 91/18630	12/1991	PCT				
	ACCCCC	WO 95/15306	06/1995	PCT				
	ADDDDD	WO 95/28392	10/1995	PCT				
	AEEEEEE	WO 00/38738	07/2000	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AFFFFF	"Phenolic derivatives of (hydroxyalkyl)alkyl=enediamineacetic acids and their salts", <u>Chemical Abstracts</u> , 89, p. 561, Abstract No. 215057x (1978)
	AGGGGG	Bagley et al., "Distribution of Intravenously Administered Ferrioxamine-59 and Ferric N,N'-Ethylenebis (α Imino-2-Hydroxy-5-Chlorophenylacetate) in Rats", <u>Proc. Soc. Exptl. Biol. Med.</u> , 127, pp. 798-801 (1968)
	AHHHHH	Barnhart et al., "Is there Stereospecificity in Hepatic Uptake of Phenyl-derivatized Contrast Agents?", <u>Contrast Media Research</u> , (October 1993)
	AIIIII	Best et al., "Chemical and In Vivo Characterization of Gd-bis-Phenylalanyl DTPA Derivatives: A Class of Hepatobiliary MRI Contrast Agents", <u>Proc. Soc. Magnetic Resonance, Second Meeting</u> , v1, p. 264 (August 1994)
	AJJJJJ	Bogdanov et al., "A New Macromolecule as a Contrast Agent for MR Angiography: Preparation, Properties, and Animal Studies", <u>Radiology</u> , 187, pp. 701-706 (1993)
	AKKKKK	Brasch et al., "Contrast-Enhanced NMR Imaging: Animal Studies Using Gadolinium-DTPA Complex", <u>AJR</u> , 142, pp. 625-630 (1984)
	ALLLLL	Brittain et al., "Luminescence and NMR Studies of the Conformational Isomers of Lanthanide Complexes with an Optically Active Polyaza Polycarboxylic Macrocyclic", <u>Inorg. Chem.</u> , 23, pp. 4459-66 (1984)
	AMMMMM	Caravan et al., "Gadolinium (III) Chelates as MRI Contrast Agents: Structure, Dynamics, and Applications", <u>Chem. Rev.</u> , 99, pp. 2293-2352 (1999)
	ANNNNN	Carter et al., "Structure of Serum Albumin", <u>Adv. Protein Chem.</u> , 45, pp. 153-203 (1994)
	AOOOOO	Chen et al., "Paramagnetic Metalloporphyrins as Potential Contrast Agents in NMR Imaging", <u>FEBS Letters</u> , 168, pp. 70-74 (1984)
	APPPPP	Chu, "The Quantitative Analysis of Structure-Activity Relationships", <u>Burger's Medicinal Chemistry, Part 1</u> , pp. 393-418 (4 th Ed., 1980)
	AQQQQQ	Davison, "Protein Binding", <u>Fundamentals of Drug Metabolism and Drug Disposition</u> , La Du et al., eds., pp. 63-75, R.E. Krieger Pub. Co. (1971)
	ARRRRR	Desreux et al., "Nuclear Magnetic Resonance Spectroscopy of Lanthanide Complexes with a Tetraacetic Tetraaza Macrocyclic. Unusual Conformation Properties", <u>Inorg. Chem.</u> , 19, pp. 1319-24 (1980)
	ASSSSS	Felix et al., "Brain Tumors: MR Imaging with Gadolinium-DTPA", <u>Radiology</u> , 156, pp. 681-88 (1985)

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Examiner Initial	Desig. ID	Document
	ATTTTT	Goldstein, "The Interactions of Drugs and Plasma Proteins," <u>Pharm. Rev.</u> , 1949, 1:102-165
	AUUUUU	Graf et al., "Iron-catalyzed Hydroxyl Radical Formation", <u>J. Biol. Chem.</u> , 259, pp. 3620-24 (1984)
	AVVVVV	Haddock et al., "Biliary Excretion of Chelated Iron", <u>Proc. Soc. Exptl. Biol. Med.</u> , 120, pp. 663-68 (1965)
	AWWWWW	Harrison et al., "Hepato-biliary and Renal Excretion in Mice of Charged and Neutral Gadolinium Complexes of Cyclic Tetra-aza-phosphinic and Carboxylic Acids", <u>Magn. Res. Imaging</u> , 11, pp. 761-70 (1993)
	AXXXXX	He et al., "Atomic Structure and Chemistry of Human Serum Albumin", <u>Nature</u> , 358, pp. 209-215 (1992)
	AYYYYY	Hoey et al., "Chemistry of X-Ray Contrast Media", <u>Radiocontrast Agents</u> , Sovak, ed., Springer-Verlag, pp. 23-125 (1984)
	AZZZZZ	Koch-Weser and Sellers, "Binding of Drugs to Serum Albumin (First of Two Parts)," <u>Medical Intelligence</u> , 1976, 294(6):311-316
	AAAAAA	Koch-Weser and Sellers, "Binding of Drugs to Serum Albumin (Second of Two Parts)," <u>Medical Intelligence</u> , 1976, 249(10):526-531
	ABBBBB	Konishiroku Photo Industry Co., Ltd., "Processing of Silver Halide Color Photographic Material", Chemical Abstracts, 101, p. 537, Abstract No., 219677p (1984)
	ACCCCC	Kragh-Hansen, "Molecular Aspects of Ligand Binding to Serum Albumin", <u>Pharm. Rev.</u> , 1981, 33(1): 17-53
	ADDDDD	Krishnamurthy et al., "Technetium-99m-Iminodiacetic Organic Anions: Review of Biokinetics and Clinical Application in Hepatology", <u>Hepatology</u> , 9, pp. 139-53 (1989)
	AEEEEEE	Lauffer et al., "Albumin Binding of Paramagnetic Hepatobiliary Contrast Agents: Enhancement of Outer Sphere Relativity", <u>Nucl. Med. Biol.</u> , 15, pp. 45-46 (1988)
	AFFFFFF	Lauffer et al., "Hepatobiliary MR Contrast Agents: 5-Substituted Iron-EHPG Derivatives", <u>Magn. Res. Med.</u> , 4, pp. 582-90 (1987)
	AGGGGG	Lauffer et al., "Paramagnetic Metal Complexes as Water Proton Relaxation Agents for NMR Imaging: Theory and Design," <u>Chem. Rev.</u> , 87, pp. 901-927 (1987)
	AHHHHH	Lauffer et al., "Preparation and Water Relaxation Properties of Proteins Labeled with Paramagnetic Metal Chelates", <u>Magn. Res. Imaging</u> , 3, pp. 11-16 (1985)
	AIIIII	Lauffer et al., "Preparation and Water Relaxation Properties of Proteins Labeled with Paramagnetic Metal Chelates", <u>Magn. Res. Imaging</u> , 3, pp. 11-16 (1985)
	AJJJJJ	Lauffer et al., "Stereospecific Binding of rac-Iron (III) N,N' Ethylenebis[(5-bromo-2-hydroxyphenyl)glycinate] to the Bilirubin Site on Human Serum Albumin," <u>J.A.C.S.</u> , 109, pp. 2216-18 (1987)
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	MMMMMM	Leo et al., "Partition Coefficients and Their Uses," <u>Chem. Rev.</u> , 71, pp. 525-616 (1971)

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	ANNNNN	Levi et al., "Two Hepatic Cytoplasmic Protein Fractions, Y and Z, and Their Possible Role in the Hepatic Uptake of Bilirubin, Sulfobromophthalein, and Other Anions", <u>J. Clin. Invest.</u> , 48, pp. 2156-67 (1969)
	AOOOOO	Martell et al., "Development of Iron Chelators for Cooley's Anemia," <u>Inorganica Chimica Acta</u> , 138, pp. 215-230 (1987)
	APPPPP	Martell, "The Design and Synthesis of Chelating Agents", <u>Development of Iron Chelators for Clinical Use</u> , Martell et al., eds., Elsevier North Holland, Inc., pp. 65-104 (1981)
	AQQQQQ	McCandlish et al., "Comparison of the Structures and Aqueous Solutions of [o-Phenylene-diaminetetraacetato (4-)] cobalt (III) and [Ethylene-diaminetetraacetato (4-)] cobalt (III) Ions", <u>Inorg. Chem.</u> , 17, pp. 1383-94 (1978)
	ARRRRR	McMurry et al., "The Effect of a Phosphodiester Linking Group on Albumin Binding, Blood Half-Life, and Relaxivity of Intravascular Diethylenetriaminepentaacetato Aquo Gadolinium(III) MRI Contrast Agents," <u>J. Med. Chem.</u> , 2002, 45:3465-3474
	ASSSSS	Moerlein et al., "The Chemistry of Gallium and Indium as Related to Radiopharmaceutical Production", <u>In. J. Nucl. Med. Biol.</u> , 8, pp. 277-87 (1981)
	ATTTTT	Moerlein et al., "The Chemistry of Gallium and Indium as Related to Radiopharmaceutical Production", <u>In. J. Nucl. Med. Biol.</u> , 8, pp. 277-87 (1981)
	AUUUUU	Motekaitis et al., "New Synthetic, Selective, High-Affinity Ligands for Effective Trivalent Metal Ion Binding and Transport", <u>Inorganica Chimica Acta</u> , 198-200, pp. 421-428 (1982)
	AVVVVV	Oksendal et al., Biodistribution and Toxicity of MR Imaging Contrast Media", <u>Magn. Res. Imaging</u> , 3, pp. 157-65 (1993)
	WWWWW	Pecoraro et al., "Gallium and Indium Imaging Agents. 2. Complexes of Sulfonated Catechylamide Sequestering Agents", <u>Inorg. Chem.</u> , 21, pp. 2209-15 (1982)
	AXXXXX	Rocklage et al., "Manganese (II) N,N'-diacetate 5,5'-Bis(phosphate). Synthesis and Characterization of a Paramagnetic Chelate for Magnetic Resonance Imaging Enhancement", <u>Inorg. Chem.</u> , 28, pp. 477-85 (1989)
	AYYYYY	Rocklage et al., "Structural and Thermodynamic Characterization of Manganese (II) N,N'-Dipyridoxylethylenediamine-N,N'-diacetate. A Novel Manganese (II) Chelate", <u>Inorg. Chem.</u> , 27, pp. 3530-34 (1988)
	AZZZZZ	Rowland et al., <u>Clinical Pharmacokinetics: Concepts and Applications</u> , Ch. 6, pp 65-74, Lea &Febiger (1980)
	AAAAAA	Smidt et al., "Association of Antisense Oligonucleotides with Lipoproteins Prolongs the Plasma Half-life and Modifies the Tissue Distribution", <u>Nucleic Acids Research</u> , vol. 19, no.17, pp. 4695-700 (September 11, 1991)
	BBBBBB	Smidt et al., "Association of Antisense Oligonucleotides with Lipoproteins Prolongs the Plasma Half-life and Modifies the Tissue Distribution", <u>Nucleic Acids Research</u> , vol. 19, no.17, pp. 4695-700 (September 11, 1991)
	CCCCCC	Sorrentino et al., "From Albumin to the Cytoplasm: the Hepatic Uptake of Organic Anions", <u>Progress in Liver Disease</u> , Popper et al, ed., W.B. Saunders Co., pp. 203-24 (1990)
	DDDDDD	Sun et al., "Synthesis of Multidentate Ligands Containing Hydroxypridyl Donor Groups", <u>Tetrahedron</u> , 47, pp. 357-364 (1991)
	EEEEEE	Swanson et al., <u>Pharmaceuticals in Medical Imaging</u> , Swanson et al., eds., Macmillan Pub., pp. 279-644 (1990)

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	AFFFFFFF	Swanson, "Enhancement Agents for Ultrasound: Fundamentals", <u>Pharmaceuticals in Medical Imaging</u> , Swanson et al., eds., Macmillan Pub., pp. 682-87 (1990)
	GGGGGG	Taliaferro et al., "New Multidentate Ligands. 22. N,N'-Dipyridoylethylenediamine-N,N'diacetic Acid: a New Chelating Ligand for Trivalent Metal Ions", <u>Inorg. Chem.</u> , 23, pp. 1188-92 (1984)
	HHHHHH	Taliaferro et al., "New Multidentate Ligands. XXIV. Disodium-N,N'bis(2-hydroxy-5-sulfobenzyl)ethylenediamine-diacetic acid, a New Chelating Ligand for Trivalent Metal Ions", <u>Chemical Abstracts</u> , 101, pp. 369-70, Abstract No. 44224j (1984)
	IIIIII	Taliaferro et al., "New Multidentate Ligands. XXIV. Disodium-N,N'bis(2-hydroxy-5-sulfobenzyl)ethylenediamine-diacetic acid, a New Chelating Ligand for Trivalent Metal Ions", <u>Inorganica Chimica Acta</u> , 85, pp. 9-15 (1984)
	AJJJJJJ	Tayyab et al., "Serum albumin; a universal biocarrier," <u>Med. Sci. Res.</u> , 1989, 17:1-4
	KKKKKK	Thakur, "Radioactive Compounds of Gallium and Indium", <u>Radiotracers for Medical Applications</u> , 1, Raydu, ed., CRC Press, p. 201 (1990)
	ALLLLL	Theodorakis et al., "Localization of Technetium 99m-Ethylenediamine-N,N'-bis (α -2-hydroxy-5-bromophenyl) acetic Acid and Technetium 99m-N-(2-Mercapto-1-oxopropyl)glycine in Hepatobiliary System", <u>J. Pharm. Sci.</u> , pp. 581-84 (1980)
	MMMMM	Tilcock et al., "Polymer-Derivatized Technetium ^{99m} Tc-labeled Liposomal Blood Pool Agents for Nuclear Medicine Applications", <u>Biochimica et Biophysica Acta</u> , 1148, pp. 77-84 (1993)
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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	